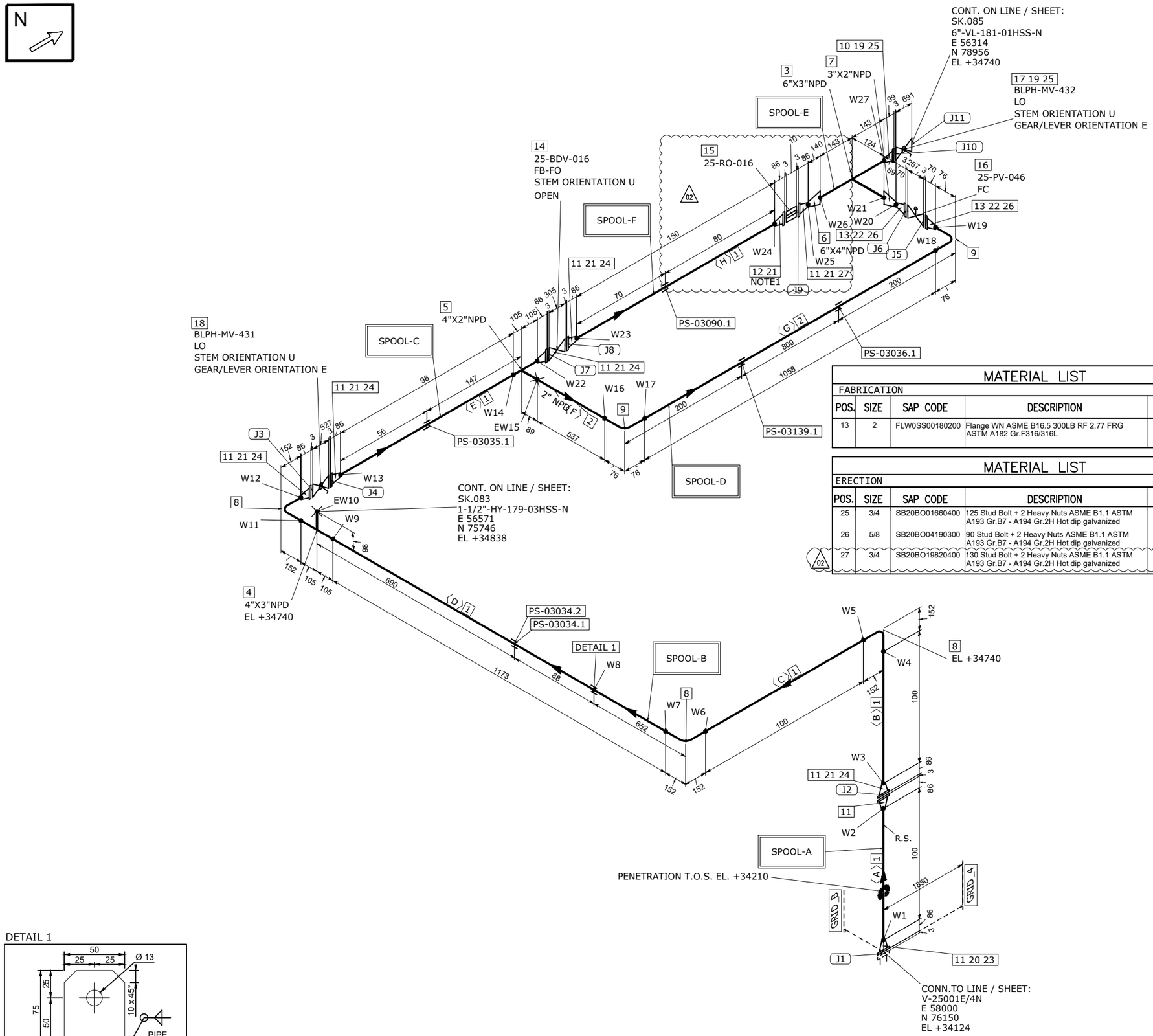


MATERIAL LIST

FABRICATION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
13	2	FLW0SS00180200	Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L	2	8.3

MATERIAL LIST

ERECTION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
25	3/4	SB20BO01660400	125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	24 (02)	10.7
26	5/8	SB20BO04190300	90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	16	4.0
27	3/4	SB20BO19820400	130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	4.0

(02)

MATERIAL LIST

FABRICATION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
1	4	PIPESS00560400	Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L	1.7M	14.7
2	2	PIPESS00540200	Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L	1.6M	6.4
3	6X3	TER0SS03820603	Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L	1	16.2
4	4X3	TER0SS01680403	Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L	1	2.7
5	4X2	TER0SS03250402	Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L	1	2.6
6	6X4	REC0SS03250604	Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L	1	3.6
7	3X2	REC0SS02770302	Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L	1	0.5
8	4	E90RSS01020400	90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L	3	6.0
9	2	E90RSS00010200	90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L	2	0.9
10	6	FLW0SS03290600	Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L	1	19.3
11	4	FLW0SS03370400	Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L	8	89.4
12	4	FLWDSS00030400	Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L	1	11.2

ERECTION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
14	4		ON/OFF Ball Actuator Valve - 300#RF Flanged	1	169.0
15	4		Restriction Orifice 300#RF	1	1.0
16	2		Control Valve - FLG 300 #RF	1	75.0
17	6	VLBBNN07240600	Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH	1	350.0
18	4	VLBBNN07230400	Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH	1	170.0
19	6	GSW0GK11260600	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	2	0.9
20	4	SPIKNN00700400	Insulation Kit Ends as per ASME B16.5 300LB RF	1	0.3
21	4	GSW0GK11250400	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	7	2.6
22	2	GSW0GK11230200	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	2	0.3
23	3/4	SB20BO19820400	130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	8	3.8
24	3/4	SB20BO01650400	115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	40	17.6

FABRICATION WEIGHT [kg]	181.8
ERECTION WEIGHT [kg]	809.2
OVERALL WEIGHT [kg]	981.0

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W1	4	BW
W2	4	BW
W3	4	BW
W4	4	BW
W5	4	BW
W6	4	BW
W7	4	BW
W8		FW
W9	4	BW
EW10	3	BW
W11	4	BW
W12	4	BW
W13	4	BW
W14	4	BW
EW15	2	BW
W16	2	BW
W17	2	BW
W18	2	BW
W19	2	BW
W20	2	BW
W21	3	BW
W22	4	BW
W23	4	BW
W24	4	BW
W25	4	BW
W26	6	BW
W27	6	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
A	4	100	BEVEL	BEVEL
B	4	100	BEVEL	BEVEL
C	4	100	BEVEL	BEVEL
D	4	1173	BEVEL	BEVEL
E	4	98	BEVEL	BEVEL
F	2	537	BEVEL	BEVEL
G	2	1058	BEVEL	BEVEL
H	4	150 (02)	BEVEL	BEVEL

SUPPORT LIST

PS-03034.2
PS-03034.1
PS-03035.1
PS-03139.1
PS-03036.1
PS-03090.1

SPOOL	WELD [inches]	WEIGHT [kg]
A	8	23.2
B	32	42.7
C	12	25.7
D	8	11.5
E	21	54.9
F	8	23.7
MONT	5	809.2

DETAIL 1

EARTHING PLATE
DIMENSIONS: 75 x 50 x 5 thk. HOLE Ø13
MATERIAL: 316L STAINLESS STEEL
ORIENTATION: UP UNLESS OTHERWISE NOTED

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	17-09-2024	STAFF SRL	RT	LM	REVISED WHERE INDICATED
01	03-09-2024	STAFF SRL	RT	LM	REVISED WHERE INDICATED
00	30-07-2024	STAFF SRL	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE
SHOP DRAWING ISOMETRIC
LINE NR. 4"-HY-180-03HSS-N

SK.084

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: STAFF SRL | CHECKED: RT | APPROVED: LM | DATE: 17-09-2024
FORMAT: A3
DRAWING NO.: 123A90-FDL-PP-DI-00084
SHEET / OF: 1/1
REV.: 02

LINE DATA

NDT INSPECTION CATEGORY	1		PED CATEGORY	III			
PAINTING	SYSTEM 6A	BASE RAL RAL 9002	FLUID PHASE	GAS			
INSULATION	TYPE N	THICKNESS [mm]	DESIGN	PRESS. 40 [barg]	TEMP. -29 / 80 [°C]		
HEAT TRACING	--		TEST	PRESS. 60 [barg]	TEMP. AMB	MEDIUM Water	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80019
ISOMETRIC SHOP DWG LIST	123A90-FDL-PP-LIS-00001
PIPING SUPPORT BOOK	123A90-DDL-PP-DD-72000
PIPING MATERIAL CLASS	123A90-DDL-PP-SP-70029

NOTES

1.JACKSCREWS POSITION E\W

MASTER